Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application. 1-4. (Canceled.)

- 5.(Currently amended.) A method for identifying one or more candidate compounds as modulators an agonist, partial agonist, or inverse agonist of a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20, comprising the steps of:
- (a) contacting said one or more compounds with a host cell <u>comprising said</u> receptor or with a host cell membrane of a host cell that expresses comprises said receptor; and
- (b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor
- (c) identifying the compound or compounds that inhibit or stimulate said receptor as an agonist, partial agonist, or inverse agonist of said receptor.
- 6. (Original) The method of claim 5 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor, said receptor comprising the polypeptide of SEQ ID NO:20.
- 7. (Currently amended.) A method for identifying one or more candidate compounds as modulators an agonist, partial agonist, or inverse agonist of a G protein-coupled receptor consisting of the polypeptide of SEQ.ID.NO.:20 SEQ ID NO:20, comprising the steps of:
- (a) contacting said one or more compounds with a host cell <u>comprising said</u> receptor or with <u>a host cell</u> membrane of a host cell that expresses <u>comprises</u> said receptor; and
- (b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor
- (c) identifying the compound or compounds that inhibit or stimulate said receptor as an agonist, partial agonist, or inverse agonist of said receptor.

8. (Currently amended.) The method of claim 7 wherein said host cell comprises an expression vector, said expression vector comprising a polynucelotide polynucleotide encoding a G protein-coupled receptor, said receptor consisting of the polypeptide of SEQ.ID.NO.:20 SEQ ID NO:20.

9-20. (Canceled.)

- 21. (Currently amended.) A method for identifying one or more candidate compounds as modulators an agonist, partial agonist, or inverse agonist of a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine, comprising the steps of:
- (a) contacting said one or more compounds with a host cell <u>comprising said</u> receptor or with a host cell membrane of a host cell that expresses <u>comprises</u> said receptor; and
- (b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor
- (c) identifying the compound or compounds that inhibit or stimulate said receptor as an agonist, partial agonist, or inverse agonist of said receptor.
- 22. (Original) The method of claim 21 wherein the glycine at amino acid position 285 is substituted with lysine.
- 23. (Original) The method of claim 21 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine.
- 24. (Currently amended.) A method for identifying one or more candidate compounds as modulators an agonist, partial agonist, or inverse agonist of a G protein-coupled receptor consisting of the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine, comprising the steps of:

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- (a) contacting said one or more compounds with a host cell <u>comprising said</u>

 receptor or with a host cell membrane of a host cell that expresses comprises said receptor; and
- (b) measuring the ability of the compound or compounds to inhibit or stimulate functionality of said receptor
- (c) identifying the compound or compounds that inhibit or stimulate said receptor as an agonist, partial agonist, or inverse agonist of said receptor.
- 25. (Original) The method of claim 24 wherein the glycine at amino acid position 285 is substituted with lysine.
- 26. (Original) The method of claim 24 wherein said host cell comprises an expression vector, said expression vector comprising a polynucleotide encoding a G protein-coupled receptor consisting of the polypeptide of SEQ ID NO:20, wherein the glycine at amino acid position 285 of SEQ ID NO:20 is substituted with an amino acid other than glycine.

27. (Canceled.)

- 28.(New.) A method for identifying one or more candidate compounds as an agonist, partial agonist, or inverse agonist of a G protein-coupled receptor comprising the polypeptide of SEQ ID NO:20 or an endogenous version thereof which is encoded by a polynucleotide that hybridizes under stringent conditions to the complement of SEQ ID NO:19, wherein said stringent conditions comprise a wash at 65°C in 0.1xSSC, comprising the steps of:
- (a) contacting said one or more compounds with a host cell comprising said receptor or with a host cell membrane that comprises said receptor; and
- (b) measuring the ability of the compound or compounds to inhibit or stimulate said receptor
- (c) identifying the compound or compounds that inhibit or stimulate said receptor as an agonist, partial agonist, or inverse agonist of said receptor.

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- 29. (New.) A method for identifying one or more candidate compounds as an agonist, partial agonist, or inverse agonist of a G protein-coupled receptor consisting of the polypeptide of SEQ ID NO:20 or an endogenous version thereof which is encoded by a polynucleotide that hybridizes under stringent conditions to the complement of SEQ ID NO:19, wherein said stringent conditions comprise a wash at 65°C in 0.1xSSC, comprising the steps of:
- (a) contacting said one or more compounds with a host cell comprising said receptor or with a host cell membrane that comprises said receptor; and
- (b) measuring the ability of the compound or compounds to inhibit or stimulate said receptor
- (c) identifying the compound or compounds that inhibit or stimulate said receptor as an agonist, partial agonist, or inverse agonist of said receptor.
- 30.(New.) A method according to any one of claims 5 to 8, 21 to 26, 28 and 29, wherein the method further comprises formulating said agonist, partial agonist, or inverse agonist as a pharmaceutical.